PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 06.07.2004 11.07.2003 PCT/EP2004/007374 · International Patent Classification (IPC) or both national classification and IPC A61K35/78, A61P15/00 Applicant INDENA S.P.A. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☑ Box No. II **Priority** ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer

Winger, R

Telephone No. +49 89 2399-8129

Form PCT/ISA/237 (Cover Sheet) (January 2004)

European Patent Office

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

D-80298 Munich

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/007374

	Box N	o. I Basis of the opinion			
1.	With rethe lar	egard to the language , this opinion has been established on the basis of the international application in nguage in which it was field, unless otherwise indicated under this item.			
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type	e of material:			
		a sequence listing			
		table(s) related to the sequence listing			
	b. format of material:				
		in written format			
		in computer readable form			
	c. time	e of filing/furnishing:			
		contained in the international application as filed.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority for the purposes of search.			
3.	h C	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.			
4.	Additi	onal comments:			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/007374

_	Box No. II	Priority					
1.		owing document ha	s not bee	n furnished	:		
	⋈	copy of the earlier a	application	n whose pri	ority has been claimed (Rule 43bis.1 and 66.7(a)).		
		translation of the ea	arlier appli	ication who	se priority has been claimed (Rule 43bis.1 and 66.7(b)).		
	Consec neverth	uently it has not be eless been establis	en possib hed on the	le to conside assumpti	der the validity of the priority claim. This opinion has on that the relevant date is the claimed priority date.		
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	3. Additional observations, if necessary:						
			-				
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	industriai a						
1.	Statement						
1.			ons and e				
1.	Statement	pplicability; citatio	yes:	explanation Claims Claims	ns supporting such statement		
1.	Statement Novelty (N)	pplicability; citatio	Yes: No:	explanation Claims Claims	ns supporting such statement		
1.	Statement Novelty (N) Inventive st	pplicability; citatio	Yes: No: Yes: No:	Claims Claims Claims	ns supporting such statement 1-9		
1.	Statement Novelty (N) Inventive st	epplicability; citation	Yes: No: Yes: No:	Claims Claims Claims Claims Claims	1-9		

see separate sheet

Re Section V

1. <u>Prior Art:</u> Reference is made to the following documents cited in the International Search Report

D1: US 2003/008020 A1 D2: US 2002/034557 A1

D3: DREWES SIEGFRIED E ET AL: "Recent findings on natural products with erectile-dysfunction activity." PHYTOCHEMISTRY. APR 2003, vol. 62, no. 7, April 2003 (2003-04), pages 1019-1025, XP004410106 ISSN: 0031-9422

D4: EP-A-0 304 603 D5: EP-A-0 418 806 D6: EP-A-0 692 250 D7: US 2002/013280 A1

- 1.1 Document D1 discloses methods for treating sexual dysfunction in males and females by administering an agent which remodels neuronal or vascular pathways. Examples are vasodilators, activators of guanylyl cyclase such as forskolin or antagonists of phosphodiesterases. Topical administration is also described. Document D2 discloses topical compositions comprising mixtures of plant extracts (especially Coleus forskohlkii) for the treatment of female sexual disorders. Document D3 discloses forskolin as an intracavernosal vasoactive agent in the management of vasculogenic impotence. Combination of agents resulted in synergistic response.
- 1.2 Document D4 discloses the use of ximenic acid, topically administered, to treat sexual impotence.
- 1.3 Document D5 discloses topical compositions of Ammi extracts comprising particularly visnadine, which is more active if percutaneously administered and which increases volume and blood flow-rate.
- 1.4 Document D6 discloses topical compositions comprising esculoside for treating peripheral vasculopathies related to impaired peripheral microcirculation.

- 1.5 Document D7 discloses icariin for treating sexual dysfunction and vasculargenic disease (enhancement of NO-cGMP pathway).
- 2. Novelty and Inventive Step (Article 33(2) and (3) PCT):

Claim 1 relates to a topical composition comprising a) esculoside or visnadine b) forskolin or plant extracts and c) esters of ximenynic acid, claim 9 relates to the use of said composition for treating sexual dysfunctions.

As none of the prior art documents disclose such a composition, the subject-matter of claims 1-9 seems to be novel.

However, as the invention of claims 1-9 consists merely in the combination of known compounds for the same use or of known compounds with known properties which are employed for the same use, respectively, the subject-matter of claims 1-9 does not seem to be inventive.